

Title: SAFETY PRESSURE DEVICE FOR BODY FLUID EXTRACTION
Application Number: 10/706,322
Filing Date: 11/12/2003
Inventor: Enrique Carlos Leira
Attorney Docket No: SLU 00-013 US
Examiner: Phillip A. Gray
Art Unit: 3767

7. (original) The device of claim 5 wherein the rod comprises a rod channel which is contiguous with the fluid channel.
8. (original) The device of claim 1 wherein the preset value is at or greater than 10 mm of H₂O.
9. (original) The device of claim 1 wherein the preset value is at or greater than 50 mm of H₂O.
10. (original) The device of claim 1 wherein the preset value is at or greater than 100 mm of H₂O.
11. (original) The device of claim 1 wherein when preset value is between 179 mm H₂O and 221 mm H₂O.
12. (original) The device of claim 1 wherein the fluid comprises a body fluid.
13. (original) The device of claim 1 wherein a needle is affixed to the inlet to the housing.
14. (original) The device of claim 1 wherein a stopcock and manometer assembly is affixed to the outlet from the housing.
15. (original) The device of claim 1 wherein a three-way valve is affixed to the outlet from the housing.
16. (original) The device of claim 1 wherein a tubing is affixed to the outlet from the housing.
17. (currently amended) A method of extracting a body fluid from a body area, the method comprising the steps of:
 - a. connecting a needle to an inlet of a housing of a valve, wherein the valve comprises the housing, the inlet of the housing, an outlet of the housing, a fluid channel which can allow a body fluid to flow from the inlet to the outlet, and a rod which can obstruct the body fluid from flowing from the inlet to the outlet, such that the valve can be in only one of two positions (i) a first position occurring when a pressure differential between the inlet and the outlet is at or greater than a preset value, the rod is displaced to completely obstruct the body fluid from flowing from the inlet to the outlet, and (ii) a second position occurring

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when the pressure differential between the inlet and the outlet is less than the preset value, the rod is not displaced, allowing to allow the body fluid to flow unrestricted from the inlet to the outlet; and

- b. inserting the needle into a body area, wherein the body fluid flows through the needle and into the inlet to the housing such that (i) when the body fluid is at a pressure that is below the preset value, the body fluid flows unrestricted to the outlet of the housing to be collected, and (ii) when the body fluid is at a pressure that is at or in excess of the preset value, the rod is completely displaced and body fluid is not allowed to flow out of the outlet of the housing.
18. (original) The method of claim 17 wherein the rod is an embolus, cone, or cylinder.
19. (original) The method of claim 17 wherein the rod is connected to the outlet of the housing by a spring and retaining pin.
20. (original) The method of claim 17 wherein the rod is perpendicular to the fluid channel and in a rod sleeve.
21. (original) The method of claim 17 wherein the rod is inline with the fluid channel.
22. (original) The method of claim 20 wherein the rod comprises a rod channel which is contiguous with the fluid channel.
23. (original) The method of claim 17 wherein the body fluid comprises CSF or blood.
24. (original) The method of claim 17 wherein a needle is affixed to the inlet of the housing.
25. (original) The method of claim 17 wherein a stopcock is affixed to the outlet of the housing and a manometer is affixed to the stopcock.
26. (original) The method of claim 17 wherein a three-way valve is affixed to the outlet of the housing.
27. (original) The method of claim 17 wherein a tubing is affixed to the outlet of the housing.
28. (currently amended) A kit for extracting a body fluid from a body, the kit comprising a needle, a valve, and an ancillary device, and wherein,
- a. the valve comprises a housing, an inlet to the housing, an outlet from the housing, a fluid channel which can allow a body fluid to flow from the inlet to the outlet,

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and a rod which can obstruct the body fluid from flowing from the inlet to the outlet, such that the valve can be in only one of two positions (i) a first position occurring when a pressure differential between the inlet and the outlet is at or greater than a preset value, the rod is displaced to completely obstruct flow of the body fluid from the inlet to the outlet; and (ii) a second position occurring when the pressure differential between the inlet and the outlet is less than the preset value, the rod is not displaced, which thereby allows unrestricted flow of the body fluid from the inlet to the outlet; and

- b. ~~and~~ the ancillary device is selected from the group consisting of a tubing, a three-way valve, a stopcock and manometer assembly and a collection device.
29. (original) The kit of claim 28 wherein the rod is an embolus, cone, or cylinder.
30. (original) The kit of claim 28 wherein the rod is connected to the outlet by a spring and retaining pin.
31. (original) The kit of claim 28 wherein the rod is perpendicular to a portion of the fluid channel and in a rod sleeve.
32. (original) The kit of claim 28 wherein the rod is inline with the fluid channel.
33. (original) The kit of claim 31 wherein the rod comprises a rod channel which is contiguous with the fluid channel.
34. (original) The kit of claim 28 wherein the body fluid comprises CSF or blood.
35. (original) The kit of claim 28 wherein the needle is affixed to the inlet of the housing.
36. (original) The kit of claim 28 wherein a stopcock and manometer assembly is affixed to the outlet of the housing.
37. (original) The kit of claim 28 wherein a three-way valve is affixed to the outlet of the housing.
38. (original) The kit of claim 28 wherein a tubing is affixed to the outlet of the housing.